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**(54) IMMUNOLOGICAL DETERMINATION METHOD OF  
HUMAN 72-KDA GELATINASE/IV-TYPE  
COLLAGENASE**

(57) Abstract:

**PURPOSE:** To determine human pro MMP-2 within a sample to be tested rapidly with high sensitivity and accuracy by using two types of monoclonal antibodies which specifically combines with human 72-kDa gelatinase/IV-type collagenase (human pro MMP-2).

**CONSTITUTION:** Two types of monoclonal antibodies which specifically combine with human pro-MMP-2 are used as carriers which combine with solid phase carriers

or antibodies which give labeled substances, thus performing measurement immunologically by the sandwich method. Balls, microplates, sticks, fine particles, or test tubes made of for example polystyrene and polycarbonate for well adsorbing protein such as antibodies can be selected arbitrarily and used as the solid phase carriers. On the other hand, after an object containing antibodies is fractionated with ammonium sulfate as antibodies giving the labeled substance, anion exchange gel and IgG fraction are performed and further specifically combined part Fab' which is obtained by reduction after pepsin digestion can be used.

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